

Patent Abstracts of Japan

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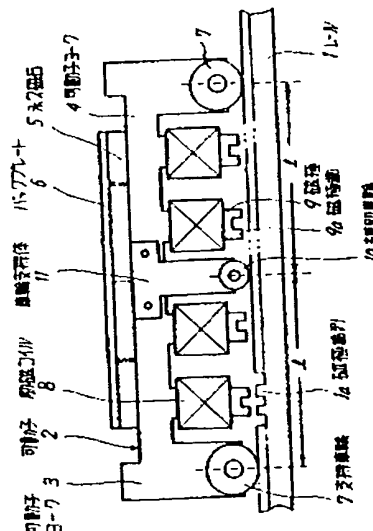
APPLICATION DATE : 29-12-88
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INVENTOR : FUJII HIROSHI;

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TITLE : LINEAR PULSE MOTOR



ABSTRACT : PURPOSE: To suppress flexural oscillation and to reduce the noise made in travelling without increasing the rigidity of a moving piece by being equipped with auxiliary wheels to keep the air gap between a pair of moving piece yokes standing in aline one behind another.

CONSTITUTION: A T-shaped wheel support 11 that installs auxiliary wheels 10 at the tip is fixed between moving piece yokes 3 and 4 standing in aline one behind another on a rail 1. With the auxiliary wheels 10 a linear pulse motor is supported at three points in front, rear and center (the number of wheels are six). On that account, the supporting span between wheels will be about 1/2 and the deflection caused by magnetic attractive force is reduced to about 1/4 with the rigidity of the rail 1 and a moving piece 2 being identical. Consequently, the degree of mechanical contact of the pole teeth 9a of the moving piece 2 with the pole tooth train 1a of the rail 1 is decreased. The noise produced in contact is also reduced remarkably.

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